STD TREATMENT GUIDELINES TABLE FOR ADULTS & ADOLESCENTS 2010

These guidelines reflect the recommendations of the 2010 CDC STD Treatment Guidelines and serve as a quick reference for treatment of STIs encountered in an outpatient setting. This is not an exhaustive list of effective treatments, so refer to the complete document from the CDC (www.cdc.gov/std/treatment) for more information or call the STD Program listed below. These guidelines are for clinical guidance and not to be construed as standards or inflexible rules. Clinical and epidemiological services are available through your STD Program, and staff are available to assist healthcare providers with confidential notification of sexual partners of patients infected with HIV and other STIs. For assistance, please contact:

Center for Sexually Transmitted Infection Prevention, Maryland DHMH/IDEHA, 410-767-6690, http://ideha.dhmh.maryland.gov/cstip/

DISEASE	RECOMMENDED REGIMENS	DOSE/ROUTE	ALTERNATIVE REGIMENS: To be used if medical contraindication to recommended regimen.			
CHLAMYDIA						
Uncomplicated Genital/Rectal/Pharyngeal Infections ¹	Azithromycin or Doxycycline ²	1 g po 100 mg po bid x 7 d	Erythromycin base 500 mg po qid x 7 d or Erythromycin ethylsuccinate 800 mg po qid x 7 d or Levofloxacin² 500 mg po qd x 7 d or Ofloxacin² 300 mg po bid x 7 d			
Pregnant Women ³	Azithromycin or Amoxicillin	1 g po 500 mg po tid x 7 d	Erythromycin base 500 mg po qid x 7 d or Erythromycin base 250 mg po qid x 14 d or Erythromycin ethylsuccinate 800 mg po qid x 7 d or Erythromycin ethylsuccinate 400 mg po qid x 14 d			
(increased t			norrhea. Dual therapy with ceftriaxone 250 mg IM ecommended for all patients with gonorrhea			
Uncomplicated	Dual therapy with		Cefpodoxime 400 mg po or			
Genital/Rectal Infections ¹	Ceftriaxone or, if not an option Cefixime 5 PLUS	250 mg IM 400 mg po	Cefuroxime axetil 1 g po or Azithromycin ⁶ 2 g po in a single dose			
	Azithromycin orDoxycycline	1 g po 100 mg po bid x 7 d				
Pharyngeal Infections	Dual therapy with Ceftriaxone PLUS	250 mg IM	Azithromycin ⁶ 2 g po in a single dose			
	Azithromycin or	1 g po				
Pregnant Women ³	Doxycycline Dual therapy with Ceftriaxone or, if not an option Cefixime 5	100 mg po bid x 7 d 250 mg IM 400 mg po	Cefpodoxime 400 mg po or Cefuroxime axetil 1 g po or Azithromycin 6 2 g po in a single dose			
	PLUS		series in joint a graph of coord			
DE11/16	Azithromycin	1 g po	Book to all a Accessible 10. Head on 2 a N/a Character			
PELVIC INFLAMMATORY DISEASE 4.7.8	Parenteral 9 • Either Cefotetan or Cefoxitin plus Doxycycline 2	2 g IV q 12 hrs 2 g IV q 6 hrs 100 mg po or IV q 12 hrs	Parenteral ⁹ • Ampicillin/Sulbactam 3 g IV q 6 hrs plus Doxycycline ² 100 mg po or IV q 12 hrs Oral ¹⁰			
	• Clindamycin plus Gentamicin	900 mg IV q 8 hrs 2 mg/kg IV or IM followed by 1.5 mg/kg IV or IM q 8 hrs	 Levofloxacin ² 500 mg po qd x 14 d or Ofloxacin ² 400 mg po bid x 14 d or Ceftriaxone 250 mg IM in a single dose and Azithromycin 1 g po once a week for 2 weeks 			
	Either Ceftriaxone or Cefoxitin with Probenecid plus Doxycycline ² plus Metronidazole if BV is present or cannot be ruled out	250 mg IM 2 g IM, 1 g po 100 mg po bid x 14 d 500 mg po bid x 14 d	 plus Metronidazole 500 mg po bid x 14 d if BV is present or cannot be ruled out 			
CERVICITIS 4,7,11	Azithromycin or Doxycycline ² plus Metronidazole if BV or trichomoniasis is present	1 g po 100 mg po bid x 7 d 500 mg po bid x 7 d				
NONGONOCOCCAL URETHRITIS 7	Azithromycin or Doxycycline	1 g po 100 mg po bid x 7 d	Erythromycin base 500 mg po qid x 7 d or Erythromycin ethylsuccinate 800 mg po qid x 7 d or Levofloxacin 500 mg po qd x 7 d or Ofloxacin 300 mg po bid x 7 d			
EPIDIDYMITIS 4.7	Likely due to Gonorrhea or Chlamydia Ceftriaxone plus Doxycycline Likely due to enteric organisms	250 mg IM 100 mg po bid x 10 d				
	Levofloxacin 12 or Ofloxacin 12	500 mg po qd x 10 d 300 mg po bid x 10 d				
CHANCROID	Azithromycin or Ceftriaxone or Ciprofloxacin ² or Erythromycin base	1 g po 250 mg IM 500 mg po bid x 3 d 500 mg po tid x 7 d				
LYMPHOGRANULOMA VENEREUM	Doxycycline ²	100 mg po bid x 21 d	Erythromycin base 500 mg po qid x 21 d or Azithromycin 1 g po q week x 3 weeks			
TRICHOMONIASIS 13,14						
Non-pregnant women	Metronidazole or Tinidazole 15	2 g po 2 g po	Metronidazole 500 mg po bid x 7 d			
Pregnant Women	Metronidazole	2 g po	Metronidazole 500 mg po bid x 7 d			

^{1.} Annual screening for women aged 25 years or younger. Nucleic acid amplification tests (NAATs) are recommended. All patients should be re-tested 3 months after treatment for chlamydia or gonorrhea.

2. Contraindicated for pregnant and nursing women.

3. Every effort to use a recommended regimen should be made. Test-of-cure follow-up (preferably by NAAT) 3-4 weeks after completion of therapy is recommended in pregnancy.

8. Evaluate for bacterial vaginosis. If present or cannot be ruled out, also use metronidazole.

^{4.} If treatment failure is suspected because GC has been documented, the patient has been treated with a recommended regimen for GC, and symptoms have not resolved, then perform a test-of-cure using culture and antibiotic susceptibility testing and report to the local health department. For clinical consult, call the CA STD Control Branch at 510-620-3400. For further guidance, go to www.std.ca.gov ("STD Guidelines").

⁽STO culterines).

5. Oral cephalosporins give lower and less-sustained bacteriocidal levels than ceftriaxone 250 mg and have limited efficacy for treating pharyngeal GC. Therefore, ceftriaxone is the preferred medication 6. For patients with cephalosporin allergy, or severe penicillin allergy, (e.g., anaphylaxis, Stevens Johnson syndrome, and toxic epidermal necrolysis), azithromycin is an option. However, because of GI intolerance and concerns regarding emerging resistance, it should be used with caution.

7. Testing for gonorrhea and chlamydia is recommended because a specific diagnosis may improve compliance and partner management, and because these infections are reportable by California law.

^{9.} Discontinue 24 hours after patient improves clinically and continue with oral therapy for a total of 14 days.

10. Fluoroquinolones can be considered for PID if the risk of GC is low, a NAAT test for GC is performed, and follow-up of the patient can be assured. If GC is documented, the patient should be re-treated with the recommended ceftriaxone and doxycycline regimen. If cephalosporin therapy is not an option, the addition of azithromycin 2 g orally as a single dose to a quinolone-based PID regimen is recommended.

11. If local prevalence of gonorrhea is greater than 5%, treat empirically for gonorrhea infection.

12. If gonorrhea is documented, change to a medication regimen that does not include a fluoroquinolone.

^{13.} For suspected drug-resistant trichomoniasis, rule out re-infection; see 2010 CDC Guidelines, Trichomonas Follow-up, p. 60, for other treatment options, and evaluate for metronidazole-resistant *T. vaginalis*. For laboratory and clinical consultations, contact CDC at 404-718-4141; http://www.cdc.gov/std.

^{14.} For HIV-positive women with trichomoniasis, metronidazole 500 mg po bid x 7 d is more effective than metronidazole 2 g orally.

^{15.} Safety in pregnancy has not been established; pregnancy category C.

DISEASE	RECOMMENDED REGIMENS	DOSE/ROUTE	ALTERNATIVE REGIMENS: To be used if medical contraindication to recommended regimen
BACTERIAL VAGINOSIS			contraindication to recommended regimen
Adults/Adolescents	Metronidazole or	500 mg po bid x 7 d	• Tinidazole ¹⁵ 2 g po qd x 2 d or
	Metronidazole gel or	0.75%, one full applicator (5g)	 Tinidazole ¹⁵ 1 g po qd x 5 d or
	Clindamycin cream ¹⁶	intravaginally qd x 5 d 2%, one full applicator (5g)	Clindamycin 300 mg po bid x 7 d or Clindamycin ovules 100 mg intravaginally qhs x 3 d
	• Clindarilycin cream **	intravaginally qhs x 7 d	Clindarilyciii ovdies 100 mg intravaginally qris x 3 d
Pregnant Women	Metronidazole or	500 mg po bid x 7 d	
•	Metronidazole or	250 mg po tid x 7 d	
	Clindamycin	300 mg po bid x 7 d	
ANOGENITAL WARTS			Law e D
External Genital/Perianal Warts	Patient-Applied Imiguimod 15,16 5% cream or	Topically qhs 3 x wk up to 16 wks	Alternative Regimen • Intralesional interferon or
	Podofilox 15 0.5% solution or gel or	Topically bid x 3 d followed by 4 d no tx	• Laser surgery or
	0	for up to 4 cycles	Photodynamic therapy or
	Sinecatechins 15 15% ointment Provider-Administered	Topically tid, for up to 16 wks	Topical cidofovir
	• Cryotherapy or	Apply once q 1-2 wks	
	Podophyllin 15 resin 10%-25% in	Apply once q 1-2 wks	
	tincture of benzoin or	AI 40 I.	
	 Trichloroacetic acid (TCA) 80%-90% or Bichloroacetic acid (BCA) 80%-90% or 	Apply once q 1-2 wks Apply once q 1-2 wks	
	Surgical removal	7,ppry onse q 1 2 mis	
Mucosal Genital Warts 17	Cryotherapy or	Vaginal, urethral meatus, and anal	
	 TCA or BCA 80%-90% or Podophyllin ¹⁵ resin 10%-25% in 	Vaginal and anal Urethral meatus only	
	tincture of benzoin or	Orethial meatus only	
	Surgical removal	Anal warts only	
ANOGENITAL HERPES 18			
First Clinical Episode of	Acyclovir or	400 mg po tid x 7-10 d	
Anogenital Herpes	Acyclovir or	200 mg po 5x/day x 7-10 d	
	Famciclovir or Valacyclovir	250 mg po tid x 7-10 d 1 g po bid x 7-10 d	
Established Infection	Valueyolevii	T g po sid x 1 to d	
Suppressive Therapy 19, 20	Acyclovir or	400 mg po bid	
	Famciclovir 19 or	250 mg po bid	
	Valacyclovir orValacyclovir	500 mg po qd 1 g po qd	
	valacyclovii	l g po qu	
Episodic Therapy for	Acyclovir or	400 mg po tid x 5 d	
Recurrent Episodes	Acyclovir orAcyclovir or	800 mg po bid x 5 d 800 mg po tid x 2 d	
	Famciclovir or	125 mg po bid x 5 d	
	Famciclovir or	1000 mg po bid x 1 d	
	Famciclovir or Valacyclovir or	500 mg once, then 250 mg bid x 2 d	
	Valacyclovir Valacyclovir	500 mg po bid x 3 d 1 g po qd x 5 d	
HIV Co-Infected 20	Tuladjoletii	1 . 3 50 44	
Suppressive Therapy 19	Acyclovir or	400-800 mg po bid or tid	
	• Famciclovir ¹⁹ or	500 mg po bid 500 mg po bid	
Episodic Therapy for Recurrent	Valacyclovir Acyclovir or	400 mg po tid x 5-10 d	
Episodes	Famciclovir or	500 mg po bid x 5-10 d	
	Valacyclovir	1 g po bid x 5-10 d	
SYPHILIS 21, 22	1 2 4		
Primary, Secondary, and Early Latent	Benzathine penicillin G	2.4 million units IM	• Doxycycline ²³ 100 mg po bid x 14 d or
			Tetracycline ²³ 500 mg po qid x 14 d or Ceftriaxone ²³ 1 g IM or IV qd x 10-14 d
Late Latent and	Benzathine penicillin G	7.2 million units, administered	Doxycycline ²³ 100 mg po bid x 28 d or
Latent of Unknown Duration		as 3 doses of 2.4 million units IM	Tetracycline ²³ 500 mg po qid x 28 d
Neurosyphilis ²⁴	Aqueous crystalline penicillin G	each, at 1-week intervals 18-24 million units daily,	Procaine penicillin G,
	- Aqueous Gystalline penicillin G	administered as 3-4 million	2.4 million units IM qd x 10-14 d plus
		units IV q 4 hrs x 10-14 d	Probenecid 500 mg po qid x 10-14 d or
B			Ceftriaxone ²³ 2 g IM or IV qd x 10-14 d
Primary Secondary	Ponzethino ponicillin C	2.4 million unito IM	• None
Primary, Secondary, and Early Latent	Benzathine penicillin G	2.4 million units IM	None
Late Latent and	Benzathine penicillin G	7.2 million units, administered as	• None
Latent of Unknown Duration		3 doses of 2.4 million units IM	
Nouroovahilia 24	Aguacua anatallina naniailina	each, at 1-week intervals	• Pressing ponicillin C
Neurosyphilis ²⁴	Aqueous crystalline penicillin G	18-24 million units daily, administered as 3-4 million	Procaine penicillin G, 2.4 million units IM qd x 10-14 d plus
		units IV q 4 hrs x 10-14 d	Probenecid 500 mg po qid x 10-14 d
		uiillo 17 9 4 1110 X 10-14 U	1 Toboliosia 300 mg po qia x 10-14 a

^{15.} Safety in pregnancy has not been established; pregnancy category C.

May weaken latex condoms and contraceptive diaphragms.
 Cervical and intra-anal warts should be managed in consultation with specialist.

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18. Counseling about natural history, asymptomatic shedding, and sexual transmission is an essential component of herpes management.

19. The goal of suppressive therapy is to reduce recurrent symptomatic episodes and/or to reduce sexual transmission. Famciclovir appears somewhat less effective for suppression of viral shedding.

20. If HSV lesions persist or recur during antiviral treatment, drug resistance should be suspected. Obtaining a viral isolate for sensitivity testing and consulting with an infectious disease expert is recommended.

21. Benzathine penicillin G (generic name) is the recommended treatment for syphilis not involving the central nervous system and is available in only one long-acting formulation, Bicillin® L-A (the trade name), which contains only benzathine penicillin G. Other combination products, such as Bicillin® C-R, contain both long- and short-acting penicillins and are not effective for treating syphilis.

22. Persons with HIV infection should be treated according to the same stage-specific recommendations for primary, secondary, and latent syphilis as used for HIV-negative persons. Available data demonstrate that additional doses of benzathine penicillin G, amoxicillin, or other antibiotics in early syphilis do not result in enhanced efficacy, regardless of HIV status.

23. Alternates should be used only for penicillin-allergic patients because efficacy of these herapies has not been established. Compliance with some of these regimens is difficult, and close follow-up is essential. If compliance or follow-up cannot be apsured, the patient should be desensitized and treated with herapting penicillin.

compliance or follow-up cannot be ensured, the patient should be desensitized and treated with benzathine penicillin.

Some specialists recommend 2.4 million units of benazthine penicillin G q week for up to 3 weeks after completion of neurosyphilis treatment.
 Pregnant women allergic to penicillin should be treated with penicillin after desensitization.